

09-3-07

AF/1652

2004
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Atty. Docket No.: 25436/2152

PATENT

5290

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Hogrefe, et al.
Serial No.: 10/035,091
Filed: December 21, 2001
Entitled: HIGH FIDELITY DNA
POLYMERASE
COMPOSITIONS AND USES
THEREFOR

Examiner: Hutston, R.G.

Group Art Unit: 1652

Conf. No.: 1719

CERTIFICATE OF MAILING UNDER 37 CFR 1.10

I hereby certify that the paper (and any paper or fee referred to as being enclosed) is being deposited with the United States Postal Service using Express Mail to Addressee Service, under 37 C.F.R. Section 1.10, **Express Mail Label No. EV 242756388 US** on this date, **September 2, 2004**, postage prepaid, in an envelope addressed to Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Kathleen M. Williams

Name of Person Mailing Paper

Signature of Person Mailing Paper

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Enclosed for filing in the above-identified patent application, please find the following documents:

1. Response and Amendment After Final Rejection Under 37 C.F.R. 1.116, mailed April 6, 2004;
2. Petition for Two Months Extension of Time;
3. Notice of Appeal;
4. Sequence Listing in Paper Format and Diskette; and
5. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any fees to Deposit Account No. 16-0085, Reference 25436/2152. A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: September 2, 2004

Name: Kathleen M. Williams

Registration No.: 34,380

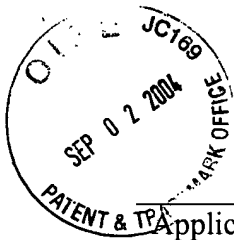
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Kathleen M. Williams

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P.O. Box 1450
Alexandria, VA 22313-1450**

RESPONSE AND AMENDMENT AFTER FINAL REJECTION UNDER 37 C.F.R. 1.116

Sir:

This Response and Amendment After Final Rejection is being filed in response to the Final Office Action mailed from the U.S. Patent and Trademark Office on April 6, 2004, in the above-identified application.

Amendments to the Specification starts on page 3 of this paper.

Amendments to the Claims are shown in the "Listing of the Claims" which begins on page 9 of this paper.

Remarks begin on page 17 of this paper.

Conclusion begins on page 26 of this paper.

A **revised sequence listing** (both paper and computer readable copies) are submitted herewith to reflect the incorporation of JDF-3 DNA polymerase sequences into the specification.

Applicants respectfully request entry of the amendments, remarks and the sequence listing.